

L66 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1994:36255 CAPLUS  
 DN 120:36255  
 ED Entered STN: 22 Jan 1994  
 TI Binders for molds and cores for casting and their manufacture  
 IN Wu, Zhengyong; et al.  
 PA Peop. Rep. China  
 SO Faming Zhuanli Shengqing Gongkai Shuomingshu, 5 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 IC ICM B22C001-24  
 CC 56-2 (Nonferrous Metals and Alloys)  
 Section cross-reference(s): 51

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1069432	A	19930303	CN 1991-107467	19910814 <--
	CN 1025659	B	19940817		
PRAI	CN 1991-107467		19910814		
AB	The binders for molds consist of petroleum pitch 40-70, solvent 30-60, vegetable oil residue ≤50%; and the binders for cores consist of vegetable oil residue 50-90, acid or base 1-15, solvent 5-45, and optionally rosin ≤10% for improving strength. The binders for molds are formed by: melting the petroleum pitch in a reaction chamber, adding the vegetable oil residue and solvent, stirring, heating to 100° and holding for 4 h, and cooling; and the binders for core sand are formed by: placing vegetable oil residue in a reaction chamber, adding acid or base to adjust pH to >7 and Iodine value >100, heating to 150°, adding solvent, heating to 150° and holding for 4 h, and cooling. By using the binders, cast articles have improved surface smoothness.				
ST	binder mold core sand casting; petroleum pitch vegetable oil binder				
IT	Molds (forms) (binders for, petroleum pitch and vegetable oil residue in)				
IT	Pitch (petroleum, binders containing, for molds for casting)				
IT	Fats and Glyceridic oils				
RL	USES (Uses) (vegetable, residues, binders containing, petroleum pitch in, for molds for casting)				

L66 ANSWER 3 OF 3 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 AN 1994-008167 [02] WPIDS  
 TI Foundry core sand binder, for casting - is obtd. by moulding sand binder, heating residues of vegetable oil and acid or alkali and solvent, etc. providing improved surface finish of casting NoAbstract.  
 DC H08 M22 P53  
 IN WU, Z  
 PA (WUZZ-I) WU Z  
 CYC 1  
 PI CN 1069432 A 19930303 (199402)\* B22C001-24 <--  
 CN 1025659 C 19940817 (199536) B22C001-24  
 ADT CN 1069432 A CN 1991-107467 19910814; CN 1025659 C CN 1991-107467 19910814  
 PRAI CN 1991-107467 19910814  
 IC ICM B22C001-24  
 FS CPI GMPI  
 FA NOAB  
 MC CPI: H08-B; M22-A03

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